

1. A method of communicating between a wireless unit and a packet data network, comprising the steps of:

sending a setup packet over a circuit switched link between said wireless unit and a base station to establish a data session between said wireless unit and said packet data network; and

sending data packets for said data session over a packet switched link between said wireless unit and said packet data network on a wireless resource that has been temporarily allocated in response to a request for a wireless resource to send data packets for said data session

2. The method of claim 1, further comprising:

establishing said circuit switched link between said wireless unit and said base station.

3. The method of claim 1, wherein said step of sending a setup packet further includes:

using an established circuit switched link between said wireless unit and said base station.

4. The method of claim 3, further comprising:

multiplexing said setup packet with a traffic frame over said circuit switched link.

5. The method of claim 4, wherein said step of multiplexing further includes:

multiplexing said setup packet with a voice frame over said circuit switched link.

6. The method of claim 5, further comprising:
maintaining said circuit switched link for at least the duration of a voice call on said circuit switched link.

31 7. The method of claim 2, further comprising:
maintaining said circuit switched link for at least the duration of a link layer connection under said data session.

32 9. The method of claim 1, wherein said step of sending data packets further includes:
using temporary assignments of supplemental channels as said wireless resource for sending said data packets for said data session.

10. The method of claim 1, wherein said step of sending data packets further includes:
sending data packets for said data session on a reverse circuit switched link from said wireless unit to a base station.

11. The method of claim 1, wherein said step of sending data packets further includes:
sending data packets for said data session on a forward circuit switched link from a base station to said wireless unit.

12. The method of claim 1, wherein said step of sending a setup packet further includes: